

MIDDLESEX UNIVERSITY



SCHOOL OF VETERINARY MEDICINE

CATALOGUE

1939 - 1940

WALTHAM

MASSACHUSETTS

STATEMENT

The Annual Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the University Faculty and of the Courses of Instruction to be offered by the various Schools and Departments; and announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to the best advantage of the University.

MIDDLESEX UNIVERSITY

Catalogue
of the
School of Veterinary Medicine
and of the
Preveterinary Course



1939 - 1940

WALTHAM

MASSACHUSETTS

University Calendar

1939

July 10	Monday	Summer session begins.
Aug. 19	Saturday	Summer session ends.
Sept. 11 to 16	Monday to Saturday	First installment of tuition due.
Sept. 18 to 23	Monday to Saturday	Examinations for the removal of conditions.
Sept. 25	Monday	Fall Session opens.
Oct. 12	Thursday	Columbus Day. A holiday.
Nov. 11	Saturday	Armistice Day. A holiday.
Nov. 22 to 26	Wednesday to Sunday	Thanksgiving Recess.
Nov. 27	Monday	Classes resumed.
Dec. 18 to 23	Monday to Saturday	Second installment of tuition due.
Dec. 18, 1939, to Jan. 1, 1940	Christmas Vacation	

1940

Jan. 2	Tuesday	Classes resumed.
Feb. 5	Monday	Second Semester begins.
Feb. 22	Thursday	Washington's Birthday. A holiday.
Mar. 25 to 30	Monday to Saturday	Third installment of tuition due.
Mar. 25 to 31	Monday to Sunday	Spring recess.
April 1	Monday	Classes resumed.
April 19	Friday	Patriot's Day. A holiday.
May 30	Thursday	Memorial Day. A holiday.
June 8	Saturday	Seniors' Class Day.
June 9	Sunday	Baccalaureate Service.
June 10	Monday	Commencement Exercises.

Officers, Trustees, and Directors of Middlesex University

Trustees and Officers

C. RUGGLES SMITH

President

FRANK L. WHIPPLE

First Vice-President

JOHN M. RUSSELL

Second Vice-President

JOHN HALL SMITH

Treasurer

HORATIO S. CARD

Secretary

MABEL B. SMITH

Recorder

Trustees and Directors

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HIRAM B. DONALDSON

HAROLD M. KAPLAN

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MARTIN L. MACDONALD

ROSE F. JANNINI

HARRY R. BOLAN

SOLOMON H. GORDON

MARION B. MACCORMACK

HUGH WALLACE SMITH

EDWARD D. LEETE

THOMAS J. SMITH

CARL B. LINDHOLM

Officers of Administration

President

C. RUGGLES SMITH, A.B., A.M., Litt.B., LL.B.

Dean of the School of Veterinary Medicine

N. R. BREWER, B.S., D.V.M., Ph.D.

Dean of the Preveterinary Faculty

JOSEPH I. CHESKIS, A.B., A.M., Ph.D.

University Marshal

HOWARD CHARLES GALE, A.A., S.T.B., M.D.

Counsel

JOHN M. RUSSELL, A.B., LL.B.

Auditor

T. RUTHERFORD EDWARDS, C.P.A.

Physicians to Students

MARTIN L. MACDONALD, M.D.

ROSE F. JANNINI, M.D.

FRANCIS LICATA, M.D.

Business Manager

MABEL B. SMITH

Bursar

MARJORIE K. FAXON

Librarians

MILDRED C. ALBERT

ANNA MADDEN

Assistants to the Dean

JULIA O'LEARY

ELIZABETH M. BRYSON

The Faculty

The list of the faculty, comprising the professors, associates, assistants, and instructors, in the School of Veterinary Medicine, and in the preveterinary department of the College of Arts and Sciences, includes those engaged in teaching during the session 1938-1939, and those who have been appointed up to January 1, 1939, for the session 1939-1940. The complete list of faculty appointments for the 1939-1940 school year will not be available until September, 1939. It is anticipated that a substantial number of important additions to the faculty roster will be announced during the intervening period. The present list is not complete so far as it concerns the second, third, and fourth years of the veterinary course, since at the time of publication only the first year is in session in this newly established department of the University.

President

C. RUGGLES SMITH *Jurisprudence*
A.B., LL.B., Harvard; A.M., Litt.B., Columbia

Dean

N. R. BREWER *Physiology, Pharmacology*
B.S., D.V.M., Michigan State; Ph.D., University of Chicago

RAINER ZANGERL *Anatomy, Histology and*
Ph.D., University of Zurich *Embryology*

RICHARD SCHOFIELD *Anatomy, Histology*
V.S., Ontario Veterinary College
B.V.Sc., University of Toronto

WILLIAM D. JONES *Genetics, Animal Husbandry*
V.S., Ontario Veterinary College;
B.V.Sc., University of Toronto

RUDOLPH SIBLEY *Veterinary Medicine*
V.S., Ontario Veterinary College

CORNELIUS F. SULLIVAN *Clinical Veterinary Medicine*
V.M.D., University of Pennsylvania

TERRENCE J. BURKE *Veterinary Surgery*
V.S., Ontario Veterinary College;
B.V.Sc., University of Toronto

MIDDLESEX UNIVERSITY, WALTHAM, MASSACHUSETTS

DAVID LYMAN DAVIDSON . . . *Bio-Chemistry*
B.S., M.S., Ph.D., Brown University

JOSEPH I. CHESKIS . . . *French*
A.B., University of Paris; A.M., Ph.D., Harvard

SOLOMON H. GORDON . . . *Chemistry*
B.S., Massachusetts State College;
Ed.M., Boston University

HAROLD M. KAPLAN . . . *Biology*
A.B., Dartmouth; A.M., Ph.D., Harvard

WILLIAM NORTHROP MORSE . . *English*
A.B., Amherst; A.M., Harvard

WILLIAM LIBEN . . . *Physics, Mathematics*
B.S., M.S., Sc.D., Massachusetts Institute of Technology

CHARLES A. P. McAREE . . . *History*
A.B., Catholic University; A.M., Harvard

GEORGE DEMETER . . . *Government*
A.B., Harvard; LL.B., Boston University

LEONARD W. GOULDE . . . *Psychology*
B.S., A.M., Tufts

Assistants and Technicians

BENJAMIN SPELFOGEL . . . *Biology*
B.S., Boston University; A.M., Harvard

I. JACQUES YETWIN . . . *Bacteriology*
B.S., Rutgers; M.S., University of Chicago

N. WILLIAM COLEMAN . . . *French*
A.B., Brown University

HARRIET S. COLLINS . . . *Pathology*
A.B., Radcliffe

ANNY ZANGERL . . . *Histology*

History

THE history of Middlesex University may be traced on the statute books of the Commonwealth of Massachusetts. The first of its component schools was chartered in 1849, and its development into a University was made possible by a series of legislative acts and charters in 1850, 1851, 1917, 1935, and 1937. It is empowered to confer degrees in Arts, Sciences, Medicine, Veterinary Medicine, Podiatry, and Chiropody.

The charter of Middlesex University authorizes its Board of Trustees to receive and hold real or personal estate by gift, grant, devise, bequest, or otherwise, to an amount not to exceed five million dollars, and provides that the clear income of the institution shall be applied to the endowment of the University in such manner as most effectually to promote its general educational purposes.

Middlesex University has achieved a high reputation for its freedom from bigotry and intolerance, and from racial or religious discrimination. The perpetuation of this policy is assured by the terms of its charter, which provides that "No officer or instructor in said University shall ever be required by the trustees to profess any particular religious opinion as a test of office, and no student shall be refused admission to or denied any of the privileges, honors, or degrees of said college on account of the religious opinions he may entertain".

Organization and Objectives

The School of Veterinary Medicine was chartered by the legislature of the Commonwealth of Massachusetts as a department of Middlesex University, with authority to confer the degree of Doctor of Veterinary Medicine. The School aims to provide a thorough, systematic education in all the basic and applied sciences of Veterinary Medicine, and to train veterinarians so that they may adequately deal with the investigation, prevention, and cure of animal diseases.

Location, Buildings and Facilities

The School of Veterinary Medicine is located on the 96-acre campus of Middlesex University at Waltham. The courses of instruction are conducted in the newly-erected group of University buildings, which contain extensive laboratories, spacious classrooms, a library and reading-room, and offices of administration.

The University property includes a large agricultural development, with a model dairy, barns, stables, a piggery, silos, kennels, and poultry yards. The farm is well stocked, and the department of animal husbandry maintains forty head of registered cattle, farm and riding horses, swine, sheep, hens, ducks, and a comprehensive selection of all the smaller domestic and laboratory animals.

The facilities of the University Library, with its collection of scientific and cultural texts, and its files of current scientific periodicals, are available to the veterinary students. The museum collections of the University include an extensive exhibit of material in the field of anatomy and vertebrate zoology, which are used for the purpose of instruction in the School of Veterinary Medicine.

The practical training and clinical instruction of students with the material available on the University campus is supplemented with visits to neighboring stock farms and with clinical service at animal hospitals under the supervision of members of the Faculty. The care and treatment of diseased animals are studied under actual farm conditions, as well as in the wards and operating rooms of modern animal clinics and dispensaries. Middlesex University is at present planning the erection of an Animal Hospital on the Waltham Campus, to be used particularly in the care and treatment of the larger farm animals, as well as for the ordinary household pets.

Student Accommodations

The future building plans of Middlesex University call for the construction of a dormitory on the Waltham Campus. At the present time students find satisfactory living quarters within walking distance of the classrooms. Room and board may be secured with a private family at an average weekly cost of \$10.00, and

there are a number of conveniently located restaurants. The University maintains a list of approved rooming houses.

Scholarship and Loan Funds

The Bangs-Perrins Scholarship was founded and endowed by Dr. John Hall Smith in memory of Professor Charles Howard Bangs and President John Perrins, both prominent in the early history of Middlesex College. The income from this fund provides a limited number of full scholarships available to both men and women, citizens of Massachusetts, in any department of the University. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and Dean of the respective School.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

The Roger Sherman York fund for student loans makes it possible for a limited number of applicants to borrow a portion of their tuition fees, and to repay these advances during the summer vacation or after graduation.

Requirements for Admission

The School of Veterinary Medicine is coeducational. The requirements for admission may be satisfied by graduation from a recognized college, or by the successful completion of a standard high school course and at least one year of college work amounting to 30 semester hours and including 6 semester hours each of English, Inorganic Chemistry and General Zoology. It is preferred that the candidate also present college credits in Physics, Mathematics, Botany, and Animal Husbandry.

Candidates who are high school graduates, but who have not yet completed the required year of college work, may enroll in the College of Arts and Sciences for the necessary year of preveterinary work. A place is reserved in the School of Veterinary Medi-

cine for all those who successfully complete the preveterinary course at Middlesex University. Attention is directed to that part of the catalogue describing the one-year preveterinary course and the seven-year combined course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. A more detailed description of these courses is contained in the announcement of the College of Arts and Sciences.

Admission blanks may be obtained from the Registrar, Box 310, Waltham, and should be filed accompanied by a verification fee of \$10.00 and a personal unmounted photograph. Applicants may arrange for a personal interview at the Waltham Campus, or at the Back Bay Building, 415 Newbury Street, Boston. In the case of candidates who come from outside of Massachusetts, a personal interview may be deferred until the opening week of the school year.

Applicants for admission to advanced standing must have the necessary qualifications for admission to the first-year class and must have satisfactorily completed one or more years of instruction in an approved School of Veterinary Medicine. For the session 1939-1940, no applications will be accepted for admission to the third or fourth years of the Veterinary course.

Special students may be admitted for selected courses if they provide evidence of satisfactory previous training; such students will not, however, be accepted as candidates for a degree.

Fees and Expenses

Fees are payable only by postal money order, certified check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, Waltham, Massachusetts.

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable except in cases where the application is rejected through no lack of qualification of the applicant, but because no vacancy exists in the class to which admission is sought. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable by each candidate for admission or re-admission to the School, when he is notified that his application has been acted upon favorably by the Committee on Admissions. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is payable annually and is not refundable.

The tuition fee of \$250 is charged for each year of instruction in the School of Veterinary Medicine. This fee is payable in three installments on the dates indicated on the University Calendar. The first installment is \$85, the second \$85, and the third \$80. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. The tuition fee in the Preveterinary Course is \$175 a year.

Any student whose installment of indebtedness to the School remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition. Tuition fees are not refundable except at the discretion of the Board of Trustees in unusual cases of physical disability.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Veterinary Medicine, upon notification by the Committee on Graduation.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special examination, except in the case of illness, is subject to a charge of ten dollars.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

It is strongly advised that entering students provide themselves with microscopes, fitted with low, high power, and oil-immersion objectives. A limited number of students who cannot undergo the expense entailed in the purchase of a microscope may rent an

instrument from the University, to be used only in the laboratories, at a cost of five dollars a course.

Living expenses in Waltham are moderate. The School maintains no dormitories, but room and board may be obtained within walking distance of the campus for an average of ten dollars a week. A list of suitable living quarters is kept on file in the Administrative Office.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Medical Attendance

A medical adviser with offices in Waltham in the vicinity of the School will be available for consultation by students. He may also be seen by appointment at the Administrative Office. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Any illness necessitating absence from class must be reported to the medical adviser. Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence.

Examinations and Promotion

Admission to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse readmission or promotion to any student.

The veterinary course extends over a period of four years, and the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these

elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Committees on Promotion, consisting of Administrative Officers of the School and members of the Faculty, review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Committees on Promotion to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted to the Third-Year Class, a student must have successfully passed all of the examinations in the work of the First Year, and no student shall be eligible for promotion to the Fourth-Year Class who has failed to pass satisfactorily in all the subjects of the previous years.

Students who fail to receive passing grades in the final examinations in June may, at the discretion of the Committees on Promotion, be given an opportunity to enroll in the Summer Session for further instruction in the subjects failed, and to take examinations for the removal of their conditions during the scheduled re-examination period in September before the opening of the school year. A fee of five dollars is charged for every such re-examination. The Committees on Promotion may permit re-examination in certain instances, and in courses that do not include laboratory work, without requiring the conditioned student to enroll for further instruction in preparation for such examinations. Students who are eligible for re-examinations must make written application at least two weeks before the examinations are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations

of the School and of affiliated institutions, as well as his observance in extra-curricular activities of a moral standard appropriate to one aspiring to the veterinary profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Requirements for Graduation

Each candidate for the degree of Doctor of Veterinary Medicine must have fulfilled the following requirements:

1. He must be at least twenty-one years of age and of good moral character.
2. He must have satisfactorily completed the four-year course in separate years.
3. If he has been admitted to advanced standing from some other school he must have completed the last year at Middlesex University.
4. He must have received a passing grade in each subject of the curriculum and he must have presented a satisfactory record of clinical work.
5. He must have furnished a personal photograph and his signature for identification.
6. He must have satisfied all indebtedness to the University, including the graduation fee of \$25.00.

Prescribed Four-Year Course of Study

The course of instruction extends over four years. Each academic year is divided into two semesters of not less than sixteen weeks. The basic veterinary sciences are studied in the first two years, by lectures, demonstrations, and laboratory exercises. The third and fourth years are devoted to practical clinical courses. Each course meets, in regard to its total hours, the standards set by the outstanding veterinary schools of the country.

SCHOOL OF VETERINARY MEDICINE

First Year

<i>First Semester</i>	<i>Second Semester</i>
Gross Anatomy 13(5-16)*	Gross Anatomy 13(5-16)
Histology and Embryology 4(2- 6)	Histology 2(2- 2)
Organic Chemistry . . . 4(2- 4)	Physiological Chemistry . 6(4- 4)
Animal Husbandry—Breeds 2(2- 0)	Animal Husbandry—Feeds 2(2- 0)

Second Year

Physiology 8(5- 6)	Pharmacology, Pharmacy . 8(5- 6)
Bacteriology 10(5-10)	and Materia Medica
Parasitology 3(1- 6)	Pathology 10(5-10)
Animal Husbandry—Dairy 2(2- 0)	Poultry Pathology 4(2- 4)

Third Year

General Surgery 4(3- 3)	Small Animal Medicine . 3(3- 0)
Therapeutics 5(5- 0)	Obstetrics 3(3- 0)
Lame and Sound 3(2- 2)	Special Surgery 6(4- 6)
(including Horseshoeing)	Jurisprudence 1(1- 0)
Clinical Diagnosis 2(1- 2)	Autopsies 1(0- 2)
Clinic 4(0-12)	Clinic 4(0-12)

Fourth Year

Infectious Diseases . . . 5(5- 0)	Infectious Diseases . . . 5(5- 0)
Milk Inspection 3(3- 0)	Meat Inspection 3(3- 0)
Large Animal Medicine . 3(3- 0)	Large Animal Medicine . 3(3- 0)
Clinic 7(0-20)	Clinic 7(0-20)

*Semester hours (lecture hours—laboratory hours).

Description of Courses

All courses are offered under the following departments of the School of Veterinary Medicine.

Anatomy	Pathology
Chemistry	Animal Industry
Bacteriology	Medicine
Physiology and Pharmacology	Surgery and Obstetrics

CHEMISTRY

Organic Chemistry. Lectures and laboratory. Organic compounds of biological importance. General reactions.

Physiological Chemistry. Lectures and laboratory. Chemistry of the animal body, and analysis of foodstuffs.

ZOOLOGY AND BOTANY

Lectures and laboratory work covering a review of Animal Biology, and a consideration of poisonous plants, grasses, clovers, cereals, and economic plants eaten by animals. Classification, distribution, identification, control,

ANIMAL HUSBANDRY

Livestock Production. Types, breeds, judging, and management of Market and Breed livestock.

Animal Feeding. Principles of feeding; nutrition; nutritional diseases; calculation of rations.

Dairy Industry. Lectures and laboratory work in the model dairy.

Genetics. Heredity and the breeding of livestock.

Poultry Husbandry. Practical instruction and visits to demonstrate the care of poultry.

BACTERIOLOGY

General Bacteriology. Lectures and laboratory. Morphology, classification, characteristics of pathogenic bacteria; infection and immunity; serology.

Special Bacteriology. Lectures. Bacteria causing animal diseases.

Parasitology. A general survey of the endoparasites and ectoparasites. Recognition of the parasite in the clinic. Treatment.

Poultry Diseases. Control; hygiene and sanitation; diseases, nature, diagnosis; autopsies; housing; diet deficiencies.

Infectious Diseases. Nature, diagnosis, control.

Milk Hygiene. Lectures and laboratory. Examination of milk; milk in relation to diseases of the cow; dairy farm inspection.

VETERINARY ANATOMY

Anatomy. Lectures, laboratory, and dissection. The structure of domestic animals; the horse, the dog, and other animals are dissected simultaneously.

Histology. Lectures and laboratory. The minute structure and composition of tissues and organs. Microscopy.

Embryology. Lectures and laboratory. The development of the domestic animals; fetal membranes, malformations, growth.

PHYSIOLOGY AND PHARMACOLOGY

Physiology. Lectures and laboratory. Functions of animal organs and systems; biophysical principles; functional variations.

Pharmacology. Lectures and laboratory. The physiological action of drugs; preparation of drugs.

Materia Medica and Pharmacy. Lectures and laboratory. Official and other important drugs; preparation, origin, properties, action and doses; compounding of prescriptions.

PATHOLOGY

General Pathology. Lectures and laboratory. Causes and effects of disease; alterations in normal structure and function.

Special Pathology. Systemic pathology and morbid anatomy of organs and organ systems; specific infectious diseases.

Autopsies. A course in postmortem technique; examination, changes, diagnosis, reports.

Meat Inspection. Slaughterhouses; conditions and parasites affecting meat; slaughter, inspection, and preservation of products.

MEDICINE

Physical Diagnosis. Lectures and demonstrations; methods of diagnosis; symptoms of disease in the various organs.

Clinical Laboratory Practice. Blood and urine chemistry; parasitology; hematology; routine examinations.

Large Animal Medicine. Principles and practice; consideration of non-infectious diseases in the horse, the cow, the sheep, the pig, and the goat.

Small Animal Medicine. Treatment and prevention of non-infectious diseases in small animals, including dogs, cats, and birds.

Clinics. Practical instruction in veterinary medicine, including large and small animal diseases, and in the writing of case histories.

Jurisprudence. Ethics, business methods, government regulations, meat inspection, quarantine rules, game laws, purchase and sale of animals, examination of the soundness of animals, and the legal principles of contracts, torts, property rights, and the practice of Veterinary Medicine.

SURGERY AND OBSTETRICS

Obstetrics. Care of pregnant animals; diseases of the genital organs; normal and abnormal presentations.

General Surgery. Basic principles; anaesthesia, restraint, wounds, infections, bone diseases, instrumentation.

Special Surgery. Includes surgical exercises; surgical diseases of the domestic animals; stitches, materials, and knots; after care.

Clinic. Application and surgical technique; obstetrics.

Horseshoeing. Lectures on podology and demonstrations at the forge. Lameness and soundness.

Preveterinary Courses

The College of Arts and Sciences offers a one-year preveterinary course designed to fulfill the requirements for admission to the School of Veterinary Medicine, and the University reserves a place in the first-year class of the School of Veterinary Medicine for all applicants who successfully complete the preveterinary course in Middlesex College.

The one-year preveterinary course covers thirty-five semester hours, and includes the following subjects:—

<i>First Semester</i>		<i>Second Semester</i>	
English	3(3-0)	Botany	3(2-3)
Zoology	3(2-3)*	(Including Poisonous Plants)	
Inorganic Chemistry . .	4(2-4)	English	3(3-0)
Mathematics	2(2-0)	Inorganic Chemistry . .	4(2-4)
Animal Husbandry—		Physics	3(2-3)
Breeds	4(4-0)	Animal Husbandry—	
		Feeds	3(3-0)
		Dairy	3(3-0)

*Semester hours (lecture hours—laboratory hours).

In view of the possibility that the requirements for admission to the School of Veterinary Medicine may be increased, the College of Arts and Sciences contemplates extending the minimum pre-veterinary course to two years beginning with the session of 1940-1941.

The Seven-Year Combined College and Veterinary Course

The College of Arts and Sciences, in conjunction with the School of Veterinary Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. The first three years are spent in the College and devoted to pre-veterinary and cultural study, and the degree of Bachelor of Science is conferred upon the subsequent completion of the first year in the School of Veterinary Medicine.

The three-year preveterinary course includes the following subjects:

<i>First Year</i>		<i>Second Year</i>	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
English	6	English	4
Chemistry	8	Physics	6
Zoology	6	Chemistry	4
Modern Language . .	4	Modern Language . .	4
Animal Husbandry . .	4	Biology	6
Mathematics	4	Social Science . . .	4
		Animal Husbandry . .	4

<i>Third Year</i>	
<i>Subject</i>	<i>Semester Hours</i>
English	6
Animal Husbandry . .	4
Chemistry	6
Economics	4
Psychology	4
Government	6

STUDENTS 1938-1939

CANDIDATES FOR THE DEGREE OF DOCTOR OF
VETERINARY MEDICINE

First-Year Class

JOSEPH APPLEBY	Yonkers, N. Y.
Middlesex University	
BERNARD ARONSON	Huntington Station, N. Y.
Washington State College	
JAMES BARRY	Medford, Mass.
Middlesex University	
EDWARD A. BLAKE	Gardner, Mass.
Middlesex University	
ELIHU BOND	Mt. Vernon, N. Y.
Columbia University	
DANA HORACE CAMERON	Harvard, Mass.
Middlesex University	
GEORGE ARTHUR CARLIN	Milwaukee, Wis.
Kansas State College	
JOHN GABRIEL DONNELLAN	Brighton, Mass.
Middlesex University	
JOHN FRANCIS DONAHUE	Washington, D. C.
Villanova College	
HAROLD K. DYE	Gloversville, N. Y.
Union College	
EPHRAIM GOLDROSEN	New York, N. Y.
Clark University; College of the City of New York	
BUNNIE E. GREGORY	St. Louis, Mo.
Iowa State College	
RAYMOND HAMEL	Philadelphia, Pa.
University of Alabama	
RICHARD HEMMERDINGER	Medford, Mass.
Middlesex University	

SCHOOL OF VETERINARY MEDICINE

HAROLD S. KALTER	Long Beach, N. Y. New York University
JULIAN M. KARASOFF	Brooklyn, N. Y. Brooklyn College
GEORGE F. METZGER	Carthage, N. Y. Villanova College
MAX TERRY MILLS	Gloversville, N. Y. Cornell University
DONALD O. MOWERS	Lebanon, N. H. Middlesex University
MERVIN S. ROSENBERG	Brooklyn, N. Y. New York University; Alfred University
JEROME ROSENFELD	New York, N. Y. Agricultural and Mechanical College of Texas
LEONARD A. SCHULHOF	New York, N. Y. Fordham University
NATHAN SIEGEL	Bayonne, N. J. New York University
SAUL S. SPITZBERG	Bronx, N. Y. New York University
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